



OXY USA INC.
Box 50250, Midland, TX 79710

May 21, 1991

Director Oil and Gas Division
Commissioner of Public Lands Office
P. O. Box 1148
Santa Fe, New Mexico 87504

State of New Mexico
Energy & Minerals Department
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Re: Plan of Development - 1991
West Bravo Dome Carbon Dioxide Gas Unit
Harding County, New Mexico

Gentlemen:

With respect to the West Bravo Dome Carbon Dioxide Gas Unit and in accordance with New Mexico Oil Conservation Division Order Number 7707, OXY USA Inc., as Unit Operator, hereby submits five (5) copies of the Plan of Development for 1991 on behalf of the Unit Working Interest Owners.

Presently there are nineteen (19) shut-in carbon dioxide gas wells in the Unit which are capable of production. Lack of market has resulted in no CO₂ production since unitization. The Unit contains 50,020.78 acres consisting of 17 Federal tracts (10,743.70 acres), 27 State of New Mexico tracts (16,416.53 acres) and 73 patented tracts (22,860.55 acres).

During 1990, in an effort to more fully assess the productive capability, establish the productive limits of the unitized acreage, and in accordance with the approved 1990 Plan of Development, four (4) wells were drilled and completed. The wells were designated as #18, #19, #20, #21 and were located in Section 18-T19N-R29E; Section 7-T18N-R29E; Section 32-T19N-R30E, and Section 2-T17N-R29E, respectively.

Two (2) of the four (4) wells drilled, after testing, were deemed productive and completed as shut-in gas wells. Table I summarizes this 1990 activity. The enclosed plat identifies the locations of these wells ("1990 wells").

In preparation for the proposed 1991 Plan of Development discussed below, the West Bravo Dome Working Interest Owners met and activated a Geological subcommittee. The subcommittee was charged with determining a prudent development plan for 1991. In addition, certain working interest owners jointly participated in engineering studies of a proposed field-wide gathering system, a central compression facility, a

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1991 Plan of Development
West Bravo Dome CO₂ Gas Unit
Harding County, New Mexico

pipeline system and field electrical study. This work was completed during 1990-91 and is currently under review.

The Working Interest Owners propose a Plan of Development for 1991 to include:

1. The drilling of one (1) WBDCDGU well. The well is tentatively to be drilled on the location shown on the attached plat ("1991 Proposed Location").
2. In order to better judge well performance, two existing wells will be fracture stimulated and tested.
3. In light of the results of the 1990 drilling program, we are currently studying the feasibility of performing geophysical surveys to aid in determining reservoir extent.

If there are questions regarding this proposed 1991 Plan of Development, please feel free to call Mr. David Evans at 915/685-5769. Your early consideration of this proposal would be appreciated.

Very truly yours,

OXY USA INC.

P.N. McGee

P. N. McGee, Manager-Land
Western Region *one*

DRE:PNM:ls

Enclosures

cc: Assistant District Manager-Minerals
Bureau of Land Management
P. O. Box 6770
Albuquerque, New Mexico 87197

APPROVED FOR SUBMITTAL:

CHEVRON U.S.A. INC.

WORKING INTEREST OWNER

By:

J. S. Bouch
Land Representative

WEST BRAVO DOME CARBON DIOXIDE GAS UNIT
HARDING COUNTY, NEW MEXICO

WORKING INTEREST OWNERS

AMERADA HESS CORPORATION
Attention: Mr. Jim Hefley
P. O. Box 2040
Tulsa, OK 74102

CHEVRON USA, INC.
Attention: Mr. Charles Frisbie
P. O. Box 1150
Midland, Texas 79702

MARTIN, WILLIAMS AND JUDSON
400 West Illinois, Suite 1000
Midland, TX 79701

TABLE I

1990 WELLS

WEST BRAVO DOME CARBON DIOXIDE GAS UNIT

WELL #	18	19	20	21
PERFORATIONS	2756-2796	3034-3129	1924-1954	2819-2866
COMPLETION TREATMENT	1000 GALS 7.5%	2000 GALS 7.5%	1000 GALS 7.5%	1000 GALS 7.5%
FRAC. TREATMENT ¹	17,000#		31,000#	
RATE	1.8 MMCFPD	P&A	2.3 MMCFPD	P&A
FTP ²	250 PSI		400 PSI	

¹ 65 QUALITY CO₂ FOAM FRAC. PUMPED AT 12 BPM

² 2.5" ORIFICE, 150 PSI BACK PRESSURE



United States Department of the Interior

IN REPLY REFER TO:
West Bravo Dome

BUREAU OF LAND MANAGEMENT ALBUQUERQUE DISTRICT OFFICE

505 Marquette, N.W.
P.O. Box 6770
Albuquerque, New Mexico 87197-6770

AUG 28 1984

Cities Service Oil and Gas Corporation
Attention: Mr. Charles E. Creekmore
P.O. Box 300
Tulsa, OK 74102

Gentlemen:

We have received five copies of the proposed form of unit agreement for the West Bravo Dome Carbon Dioxide Gas Unit. In view of the small percentage of Federal lands (8.98%), designation of this unit by the Bureau of Land Management is not required. This unit will be treated as a non-federal control unit, and normal Federal supervision will be maintained only over the Federal leases involved. Four copies of the unit agreement with appropriate collateral material should be filed with this office after final approval thereof by the New Mexico Oil Conservation Division and performance of all requirements necessary to establish the effective date.

Notwithstanding the above procedure, we would appreciate being kept informed of your progress towards unitization of the area and of the docket dates arranged for the New Mexico Oil Conservation Division hearing.

We are also returning three extra copies of the proposed form of unit agreement.

Sincerely yours,

L. Paul Applegate
for L. Paul Applegate
District Manager

EX.11



CITIES SERVICE OIL AND GAS CORPORATION
P.O. BOX 300 TULSA, OKLAHOMA 74102

September 19, 1984

AmeriGas
Carbon Dioxide Division
Suite 1100
4455 LBJ Freeway
Dallas, Texas 75234

ATTN: Mr. W. P. Heckel, Jr.

Re: West Bravo Dome CO₂ Gas Unit
Harding County, New Mexico

Gentlemen:

Please be advised that on Wednesday, September 12, 1984, I contacted your Lessor, Mr. Albert Mitchell of T. E. Mitchell and Son, Inc., in reference to his execution of the Ratification to the West Bravo Dome CO₂ Gas Unit. Mr. Mitchell stated that he was in favor of the Unit as far as the 160 acres we have set out and placed in the Unit under Tract 2072. At that time, Mr. Mitchell informed me the only thing keeping him from executing the Ratification was that he had not received the Segregation of Lease instruments from your company.

Would you please look into this matter, and if there is anything we can do to assist you in expediting his receipt of these instruments, please let us know.

Yours very truly,

Charles E. Creekmore
Land Unitization and Acquisitions

CEC/gw



CARBON DIOXIDE DIVISION

February 24, 1984

Mr. Eugene F. Motter
Engineering Manager
Cities Service Company
Box 1919
Midland, TX 79702

Re: Proposed West Bravo Dome Unit

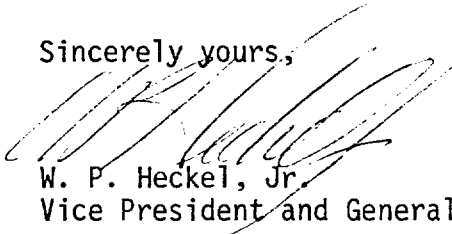
Dear Mr. Motter:

We have carefully reviewed, both internally and with our lessor, the extent of our participation in your proposed West Bravo Dome Unit as described in the draft documents you sent to us most recently on February 3, 1984.

We have concluded that we wish to participate with no more than a 160 acre tract. Please let us know which of our 160 acre tracts you would prefer to include and we will advise.

We appreciate all you have done to keep us informed regarding this proposal, and wish you success in implementing it.

Sincerely yours,



W. P. Heckel, Jr.
Vice President and General Manager

WPH/tgl

cc Albert J. Mitchell
William Kerr
Walter F. X. Healy



STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT
OIL CONSERVATION DIVISION

TONY ANAYA
GOVERNOR

November 2, 1984

POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501
(505) 827-5800

Mr. Thomas Kellahin
Kellahin & Kellahin
Attorneys at Law
Post Office Box 2265
Santa Fe, New Mexico

Re: CASE NO. 8351
ORDER NO. R-7707

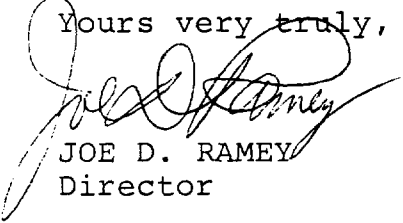
Applicant:

Cities Service Oil & Gas Corporation

Dear Sir:

Enclosed herewith are two copies of the above-referenced
Commission order recently entered in the subject case.

Yours very truly,


JOE D. RAMEY
Director

JDR/fd

Copy of order also sent to:

Hobbs OCD x
Artesia OCD x
Aztec OCD _____

Other _____
